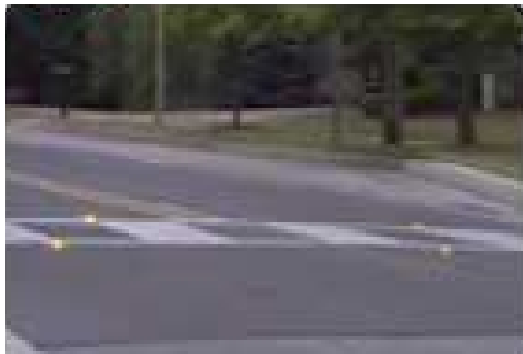











Pedestrian Treatments

Sample Safety Treatments	Description	Range/ Approximate Costs	Known Location(s)	Contact(s)
	<p>In-pavement lights - used at crosswalks to alert motorists to the presence of a pedestrian crossing or preparing to cross the street. The amber lights are embedded in the pavement on both sides of the crosswalk and oriented to face oncoming traffic. When the pedestrian activates the system, either by using a push-button or through detection from an automated device, the lights begin to flash at a constant rate.</p>	<p>\$25,000 to \$35,000</p>	<p>Kirkland, WA</p>	<p>Dave Godfrey 425-828-1214</p>
	<p>Roving or Animated eyes - intended for use at pedestrian crosswalks as an alternative to conventional pedestrian signals. Animated eyes displays are expected to encourage pedestrians to look for turning vehicles traveling on an intersecting path by including a prompt as part of the pedestrian signal. The prompt is a pair of animated eyes that scan from side to side at the start of the WALK indication.</p>	<p>\$4,000</p>	<p>Shoreline, WA</p>	<p>John Chi 206-764-6444</p>
	<p>Flashing overhead crosswalk signs- adds amber flashing beacons for the crosswalk so the motorists can see who is crossing the street. Two beacons which are pedestrian activated can be attached to the sign. The pedestrian uses the push buttons and activates the flashers to warn motorists to stop.</p>	<p>\$70,000 with new electrical systems</p>	<p>Shoreline, WA</p>	<p>John Chi 206-764-6444</p>




Pedestrian Treatments

Sample Safety Treatments	Description	Range/ Approximate Costs	Known Location(s)	Contact(s)
	<p>Count down signal- used in conjunction with conventional pedestrian signals to provide information to the pedestrian regarding the amount of time remaining to safely cross the street.</p>	<p>\$4,000</p>	<p>Municipalities currently using this device: Sacramento, CA; Palm Beach County and Seminole County, FL; Trenton, NJ; Newton, MA.</p>	<p>For more, including technical specifications, go to www.nationalssc.com/count.html</p>
	<p>Microwave/infrared pedestrian detector -provides the means to automatically detect the presence of pedestrians in either the targeted curbside area and/or while moving in a designated crosswalk area. When used at the curbside area, it may replace standard push buttons used to activate the pedestrian call feature.</p>	<p>\$180 - \$400 for a single unit</p>	<p>Portland, OR</p>	<p>Bill Kloos in the Bureau of Traffic Management at KLOOS@trans.ci.portland.or.us</p>
	<p>Standard crosswalk striping and signage.</p>	<p>\$1,500-\$3,000</p>	<p>Airway Heights, WA</p>	<p>Ted Trepanier 509-324-6550</p>






Traffic Calming and Management

Sample Safety Treatments	Description	Range/ Approximate Costs	Known Location(s)	Contact(s)
	<p>Refuge island - ped refuge, a raised island in the roadway that separates a crosswalk into discrete legs and provides a refuge for crossing pedestrians.</p>	<p>\$15,000-\$30,000</p>	<p>University Place, WA</p>	<p>Pat O'Neil 253-460-2529</p>
	<p>Chicane - A series of two or more build-outs on alternate sides of the road, but not opposite one another.</p>	<p>\$15,000 - \$30,000</p>	<p>Seattle, WA</p>	<p>Patti Polinsky 206-543-7322</p>
	<p>Transit bulb-out - extended pavement to narrow roadway, or pinch throughfare, or provide space for bus stop, bench, etc.</p>	<p>\$15,000-\$55,000 depending on drainage and utility location</p>	<p>California, Washington and Oregon</p>	<p>Ross Hudson King County Metro 206-263-3178</p>
	<p>Curb extension - an area where the sidewalk and curb are extended into the parking lane, usually in order to shorten pedestrian crossing distance.</p>	<p>\$15,000-\$30,000</p>	<p>Ellensburg, WA</p>	<p>John Akers 509-962-7101</p>




Lighting

Sample Safety Treatments	Description	Range/ Approximate Costs	Known Location(s)	Contact(s)
	Pedestrian-friendly lighting #1- street lighting which provides adequate illumination of the walking surface, as opposed to conventional street lighting which provides adequate illumination in the middle of the roadway for cars already equipped with lights	\$5,000-\$15,000	University Place, WA	Pat O'Neil 253-460-2529
	Pedestrian-friendly lighting #2- street lighting which provides adequate illumination of the walking surface.	\$5,000-\$15,000	Ellensburg, WA	John Akers 509-962-7101
	Pedestrian-friendly lighting #3- street lighting which provides adequate illumination of the walking surface.	\$5,000-\$15,000	Toronto, Canada	416-397-8723

Amenities

Sample Safety Treatments	Description	Range/ Approximate Costs	Known Location(s)	Contact(s)
	Patterned concrete or pavers – can be used to warn motorists to expect pedestrians and create a more interesting and aesthetically appealing walkway.	Cost varies based on size of area. \$3,000 for a patterned concrete crosswalk.	Ellensburg, WA	John Akers 509-962-7101
	Wood and concrete planter boxes.	\$500-\$3,000	Ellensburg, WA	John Akers 509-962-7101
	Street trees- tree in well with concrete.	\$1,000	Portland, OR	Tom Kloster 503-797-1832
	Wood bench #1.	\$500 each	Portland, OR	Tom Kloster 503-797-1832
	Wood bench #2.	\$500 each	Ellensburg, WA	John Akers 509-962-7101

Bicycle Treatments

Sample Safety Treatments		Description	Range/ Approximate Costs	Known Location(s)	Contact(s)
		Bike rack – holding 4 bicycles.	\$500	Portland, OR	Tom Kloster 503-797-1832
		Paved bike path – per mile.	\$15,000-\$30,000	Roslyn, WA	Greg Lovelady 360/ 902-3008
		Standard striped bikeway per 100 feet.	\$500 - \$2,000	Portland, OR	Tom Kloster 503-797-1832

Bicycle Treatments

Sample Safety Treatments	Description	Range/ Approximate Costs	Known Location(s)	Contact(s)
	Bike lockers – set of 4.	\$4,000	Portland, OR	Tom Kloster 503-797-1832
	Bike barn - movable covered parking for 50+ bicycles.	\$2,000 - \$4,000		CORA 1-800-354-8624
	Culvert tunnel - uses culvert pipe to create a tunnel for bicycles to pass through.	\$10,000 to \$30,000 cost varies with size and site requirements.	Wenatchee, WA	Matt Wisen 509-667-2910